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- (71) Applicant (for all designated States except US): WYETH [US/US]; Five Giralda Farms, Madison, NJ 07940 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): JELINSKY, Scott, Alan [US/US]; 58 Blossom Street, Waltham, MA 02451 (US). HARRIS, Heather, Anne [US/US]; 210 Pine Drive, Phoenixville, PA 19460 (US). BROWN, Eugene, Lee [US/US]; 1388 Walnut Street, Newton Highlands, MA 02461-1849 (US). EVANS, Mark, James [US/US]; 617 Twin Bridge Drive, Radnor, PA 19087 (US).
- (74) Agents: MAKARY, Meghan, M. et al.; Wyeth, Patent Law Department, Five Giralda Farms, Madison, NJ 07940 (US).

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(54) Title: ESTROGEN RECEPTOR-ALPHA REGULATED GENE EXPRESSION, RELATED ASSAYS AND THERAPEUTICS

(57) Abstract: A plurality of genes modulated by estrogen or other agents, such as hormones or combinations of hormones, in various types of tissue is described. One embodiment of the disclosure relates to a plurality of genes, which demonstrates certain patterns of expression differing qualitatively or quantitatively, with and without exposure to estrogen and/or other hormone compositions. Methods of using these genes in identifying candidate agents that exert at least some of the biological effects of estrogen and/or other hormone, and pharmaceuticals and related therapies also is disclosed. The use of the plurality of genes in methods of monitoring, in gene chips and in kits also is disclosed.